

**SYSTEMS AND METHODS FOR INTEGRATING MICROSERVERS  
WITH A NETWORK INTERFACE DEVICE**

**ABSTRACT OF THE DISCLOSURE**

A network interface device has an isolation device adapted to isolate a transport medium internal to a customer premises from a transport medium external to the customer premises such that operational changes to one of the internal and external transport media do not affect the other of the internal and external transport media. A first interface is coupled with the isolation device and adapted to communicate with the external transport medium, which is in communication with a distribution point. A second interface is coupled with the isolation device and adapted to communicate with the internal transport medium. A microserver is disposed external to the customer premises and coupled with the first and second interfaces. The microserver is adapted to receive telecommunication information from the external transport medium and includes software for implementing a predetermined function over the internal transport medium by processing the received telecommunication information.

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